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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/046,404 01/14/2002		Bernard M. Werner	HI03027USU P02017US	2074	
7590 11/01/2005			EXAMINER		
JENNIFER H. HAMMOND			DABNEY, PHYLESHA LARVINIA		
THE ECLIPSE 10453 RAINTE		ART UNIT	PAPER NUMBER		
NORTHRIDGE	E, CA 91326	2646			

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application	on No.	Applicant(s)	Applicant(s)		
		10/046,40	10/046,404 WERNER, BERN		ARD M.		
		Examiner	,	Art Unit			
•	· ·	Phylesha	L. Dabney	2646			
Period fo	The MAILING DATE of this communication Reply	n appears on the	cover sheet with th	he correspondence ad	idress		
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILINg is in the may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communication period for reply is specified above, the maximum statutory pure to reply within the set or extended period for reply will, by reply received by the Office later than three months after the red patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THE FR 1.136(a). In no even on. period will apply and wi statute, cause the app	IIS COMMUNICAT ent, however, may a reply b ill expire SIX (6) MONTHS lication to become ABANDO	TION. De timely filed from the mailing date of this of the control of the contr			
Status							
1)⊠ 2a)⊠ 3)□	Responsive to communication(s) filed on This action is FINAL . 2b) Since this application is in condition for all closed in accordance with the practice un	This action is no lowance except	on-final. for formal matters,		e merits is		
Disposit	ion of Claims						
5)□ 6)⊠ 7)□ 8)□ Applicat 9)□ 10)□	Claim(s) 1-28 is/are pending in the applic 4a) Of the above claim(s) is/are wit Claim(s) is/are allowed. Claim(s) 1-8 and 11-28 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and the specification is objected to by the Example of the drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the contraction and solvention is objected to by the Example of the specification is objected to by the Example of the specific at the specif	chdrawn from co and/or election re aminer. accepted or b) o the drawing(s) b orrection is require	equirement. objected to by the held in abeyance. ed if the drawing(s) is	See 37 CFR 1.85(a). s objected to. See 37 C	` '		
	The oath or declaration is objected to by the	ne Examiner. No	he the attached On	ince Action of form P	10-152.		
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some colonic None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
2) Notic 3) Infor	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94 mation Disclosure Statement(s) (PTO-1449 or PTO/S r No(s)/Mail Date	•	4) Interview Summ Paper No(s)/Ma 5) Notice of Inform 6) Other:		O-152)		

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DETAILED ACTION

This action is in response to the interview conducted on 03 August 2005 in which claims 1-8 and 11-14 are pending.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-8, 11-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Klayman (U.S. Patent No. 3,930,561).

Regarding claims 1, 5-6, 18-19, 21-22, and 27-28, Klayman teaches an acoustic waveguide, comprising: a first control curve; a second control curve; a third control curve; a fourth control curve; and a continuous three-dimensional least-energy-surface coincident with the first control curve, the second control curve, the third control curve and the fourth control curve that intersect a circular throat end and a non-elliptical closed control curve that defines a mouth.

Regarding claims 2, 20, and 23, Klayman teaches the continuous three-dimensional least-energy-surface is free of discontinuities (fig. 1; col. 2 line 59 through col. 3 line 24).

Regarding claims 3, 15, and 24, Klayman teaches the continuous three-dimensional surface further includes: a minimum surface area axial section plane of the continuous three-

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dimensional surface formed from the first control curve, second control curve, third control curve, and fourth control curve (fig. 1; col. 2 line 44 through col. 3 line 24).

Regarding claims 4, 11, 16-17, and 25-26, Klayman teaches the minimum surface area axial section plane is at the circular throat end of the acoustic waveguide (figs. 1-2; col. 2 line 44 through col. 3 line 24).

Regarding claim 7, see the rejection of claim 1.

Regarding claim 8, see the rejection of claim 2.

Regarding claim 12, see the rejection of claims 1 and 2.

Regarding claim 13, see the rejection of claims 1, 3, and 11.

Regarding claim 14, see the rejection of claims 1 and 2 and figures 3-4 of Klayman.

Response to Arguments

Applicant's arguments filed have been fully considered but they are not persuasive.

With respect to the Applicant's arguments that the Klayman patent teaches a waveguide defined by a surface terminating at a mouth with a raised diffraction area, edge, or "lip" and which included sharp corners, instead of teaching any form of least-energy-surface. The examiner disagrees. In the Applicant's specification (page 9), it is stated that the acoustic waveguide surface, or "continous three dimensional curved surface" is made from multiple pieces of materials that function as a continous surface having minimal discontinuities."

Klayman teaches the radius at the midpoint of each side is 2.8 inches where as the radius as each corner is 1.7 inches which suggests that the corners of the Klayman reference are more inward relative to the sides, thus a smoothing effect at the corners. Furthermore, the claims require that

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the surface intersects the circular throat and non-elliptical mouth. Klayman also satisfies this requirement since the surface in question lies between a circular throat and raised diffracted

mouth. Therefore, the rejection is being maintained.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phylesha L. Dabney whose telephone number is 571-272-7494.

The examiner can normally be reached on Mondays, Tuesdays, Wednesdays, Fridays 8:30-4 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh Tran can be reached on 571-272-7564. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

October 21, 2005

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SINH TRAN
SUPERVISORY PATENT EXAMINER

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